



# Service Component Architecture Test Assertions for the SCA JCA Binding Specification Version 1.1

**Working Draft 03**

**9<sup>th</sup> September, 2009**

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**Specification URIs:**

**This Version:**

<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-test-assertions-wd01.html>  
<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-test-assertions-wd01.doc>  
<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-test-assertions-wd01.pdf>  
(Authoritative)

**Previous Version:**

**Latest Version:**

<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-test-assertions.html>  
<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-test-assertions.doc>  
<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-test-assertions.pdf>  
(Authoritative)

**Latest Approved Version:**

**Technical Committee:**

OASIS Service Component Architecture / Bindings (SCA-Bindings) TC

**Chair(s):**

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**Related work:**

This specification is related to:

- Service Component Architecture JCA Binding Specification Version 1.1  
<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-spec.pdf>

**Declared XML Namespace(s):**

None

**Abstract:**

This document defines the Test Assertions for the SCA JCA Binding specification.

The Test Assertions represent the testable items relating to the normative statements made in the SCA JCA Binding specification. The Test Assertions provide a bridge between the normative statements in the specification and the conformance TestCases that are designed to check that an SCA runtime conforms to the requirements of the specification.

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**Status:**

This document was last revised or approved by the OASIS Service Component Architecture / Bindings (SCA-Bindings) TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <http://www.oasis-open.org/committees/sca-bindings/>.

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The non-normative errata page for this specification is located at <http://www.oasis-open.org/committees/sca-bindings/>.



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# 1 Introduction

This document defines Test Assertions for the SCA JCA Binding specification [SCA-JCA].  
The test assertions in this document follow the format defined in the OASIS Test Assertion Guidelines specification [OASIS-TAG].

## 1.1 Example Test Assertion

Test assertions are presented in a tabular format with rows corresponding to the entry types defined in the OASIS Test Assertions Guidelines

Assertion ID	BJC-TA-nnnnn
	[BJCnnnnn]
Target	<xyuvbghs/> element of composite file
Prerequisites	The [<xyuvbghs/> element] has a @foobar attribute
Predicate	The @foobar attribute of [the <xyuvbghs/> element] is a URI that references a foobar element in the SCA Domain-
Prescription Level	Mandatory
Tags	foobar references

**Assertion ID:** Is a unique ID for the test assertion. Its format starts with a 3 letter string that identifies the specification to which it relates - "BJC" for the SCA JCA Binding specification. This is followed by "-TA-" to indicate that this identifier is for a test assertion. This is then followed by a unique 5 digit number

**Source:** Is the identifier(s) of the normative statement(s) in the specification to which this assertion relates.

**Target:** Identifies the target which is addressed by this assertion. This is typically some SCA document element, but possibly could identify an SCA runtime and its behaviour.

**Prerequisites:** Defines any prerequisites for this test assertion. The prerequisites may be defined in terms of one or more other test assertions that must be true.

**Predicate:** The meat of the assertion - something that should evaluate to true or false for the given target.

**Prescription Level:** Mandatory (for MUST requirements) or Preferred (for SHOULD requirements) or Permitted (for MAY requirements).

**Tags:** Zero or more labels that may be attached to this test assertion - these tags can be used to group sets of assertions.

## 1.2 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC Keywords [RFC2119].

This specification uses predefined namespace prefixes throughout; they are given in the following list.

Note that the choice of any namespace prefix is arbitrary and not semantically significant.

Table 1-1 Prefixes and Namespaces used in this specification

Prefix	Namespace	Notes
xs	"http://www.w3.org/2001/XMLSchema"	Defined by XML Schema 1.0 specification

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sca	"http://docs.oasis-open.org/ns/opencsa/sca/200903"	Defined by the SCA specifications
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**Comment:** To be updated

29 **1.3 Normative References**

- 30 **[RFC2119]** S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*,  
31 <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.
- 32 **[SCA-JCA]** SCA JCA Binding Specification 1.1  
33 <http://docs.oasis-open.org/opencsa/sca-bindings/sca-jcabinding-1.1-spec.pdf>
- 34 **[OASIS-TAG]** OASIS Test Assertion Guidelines Specification  
35 [http://www.oasis-](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)  
36 [open.org/apps/group\\_public/download.php/30070/TestAssertionsGuidelines-](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)  
37 [draft-0-9-9-6.pdf](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)
- 38 **[JCA15]** J2EE Connector Architecture Specification Version 1.5  
39 <http://java.sun.com/j2ee/connector/>
- 40 **[SCA-Assembly]** <http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec.html>
- 41 **[SCA-Policy]** <http://docs.oasis-open.org/opencsa/sca-policy/sca-policy-1.1-spec.pdf>

42 **1.4 Non-Normative References**

43 **TBD** TBD

44 **1.5 Naming Conventions**

45 This specification follows some naming conventions for artifacts defined by the specification. In addition  
46 to the conventions defined by section 1.3 of the SCA Assembly Specification **[SCA-Assembly]**, this  
47 specification adds three additional conventions:

- 48 • Where the names of elements and attributes consist partially or wholly of acronyms, the letters of the  
49 acronyms use the same case. When the acronym appears at the start of the name of an element or  
50 an attribute, or after a period, it is in lower case. If it appears elsewhere in the name of an element or  
51 an attribute, it is in upper case. For example, an attribute might be named "uri" or "jndiURL".
- 52 • Where the names of types consist partially or wholly of acronyms, the letters of the acronyms are in  
53 all upper case. For example, an XML Schema type might be named "JCABinding" or "MessageID".
- 54 • Values, including local parts of QName values, follow the rules for names of elements and attributes  
55 as stated above, with the exception that the letters of acronyms are in all upper case. For example, a  
56 value might be "JMSDefault" or "namespaceURI".

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## 2 Test Assertions for JCA Binding Specification

### 2.1 Section 2

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Assertion ID	BJC-TA-20001
Source	[BJC20001]
Target	<binding.jca/> element
Prerequisites	
Predicate	Zero or one of the following are present; <ul style="list-style-type: none"> <li>• @uri</li> <li>• @connectionInfo</li> <li>• &lt;inboundConnection/&gt;</li> <li>• &lt;outboundConnection/&gt;</li> </ul>
Prescription Level	mandatory
Tags	"connection"
Comment	

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Assertion ID	BJC-TA-20002
Source	[BJC20002]
Target	<binding.jca/> element
Prerequisites	The @uri attribute is not present
Predicate	The @initialContextFactory attribute is not present
Prescription Level	mandatory
Tags	"JNDI"
Comment	

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Assertion ID	BJC-TA-20003
Source	[BJC20003]
Target	<binding.jca/> element
Prerequisites	The @uri attribute is not present
Predicate	The @jndiURL attribute is not present
Prescription Level	mandatory

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<u>Tags</u>	<u>"JNDI"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<u>BJC-TA-20004</u>
<u>Source</u>	<u>[BJC20004]</u>
<u>Target</u>	<u>&lt;service&gt; with a child &lt;binding.jca/&gt; element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>The &lt;outboundConnection/&gt; element is not present</u>
<u>Prescription Level</u>	<u>mandatory</u>
<u>Tags</u>	<u>"connection"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<u>BJC-TA-20005</u>
<u>Source</u>	<u>[BJC20005]</u>
<u>Target</u>	<u>&lt;resourceAdapter/&gt; child element of an &lt;outboundConnection/&gt; element</u>
<u>Prerequisites</u>	<u>The &lt;resourceAdapter/&gt; element has one or more &lt;property/&gt; child elements</u>
<u>Predicate</u>	<u>One or more of the &lt;property/&gt; child elements is restricted</u>
<u>Prescription Level</u>	<u>permitted</u>
<u>Tags</u>	<u>"resource adapter"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<u>BJC-TA-20006</u>
<u>Source</u>	<u>[BJC20006]</u>
<u>Target</u>	<u>&lt;binding.jca/&gt; element with &lt;outboundConnection managed="false"/&gt; child element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>The &lt;outboundConnection/&gt; element does not have a &lt;resourceAdapter/&gt; child element</u>
<u>Prescription Level</u>	<u>mandatory</u>
<u>Tags</u>	<u>"unmanaged"</u>
<u>Comment</u>	

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<u>Source</u>	<a href="#">[BJC20007]</a>
<u>Target</u>	<a href="#">&lt;connection/&gt; child element of a &lt;outboundConnection/&gt; element</a>
<u>Prerequisites</u>	<a href="#">The @create attribute has a value of "always"</a>
<u>Predicate</u>	<a href="#">The value of the @name attribute is unique in the SCA Domain</a>
<u>Prescription Level</u>	<a href="#">mandatory</a>
<u>Tags</u>	<a href="#">"connection"</a>
<b>Comment</b>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20008</a>
<u>Source</u>	<a href="#">[BJC20008]</a>
<u>Target</u>	<a href="#">&lt;connection/&gt; child element of a &lt;outboundConnection/&gt; element</a>
<u>Prerequisites</u>	<a href="#">The @create attribute has a value of "always"</a>
<u>Predicate</u>	<a href="#">The value of the @name attribute names a connection factory that does not exist in the JEE node</a>
<u>Prescription Level</u>	<a href="#">preferred</a>
<u>Tags</u>	<a href="#">"connection"</a>
<b>Comment</b>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20009</a>
<u>Source</u>	<a href="#">[BJC20009]</a>
<u>Target</u>	<a href="#">&lt;service&gt; with a child &lt;binding.jca/&gt; element</a>
<u>Prerequisites</u>	
<u>Predicate</u>	<a href="#">The &lt;outboundInteraction/&gt; element is not present</a>
<u>Prescription Level</u>	<a href="#">mandatory</a>
<u>Tags</u>	<a href="#">"interaction"</a>
<b>Comment</b>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20010</a>
<u>Source</u>	<a href="#">[BJC20010]</a>
<u>Target</u>	<a href="#">&lt;reference&gt; with a child &lt;binding.jca/&gt; element</a>
<u>Prerequisites</u>	
<u>Predicate</u>	<a href="#">The &lt;inboundConnection/&gt; element is not present</a>

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<u>Prescription Level</u>	<u>mandatory</u>
<u>Tags</u>	<u>"connection"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<u>BJC-TA-20011</u>
<u>Source</u>	<u>[BJC20011]</u>
<u>Target</u>	<u>&lt;resourceAdapter/&gt; child element of an &lt;inboundConnection/&gt; element</u>
<u>Prerequisites</u>	<u>The &lt;resourceAdapter/&gt; element has one or more &lt;property/&gt; child elements</u>
<u>Predicate</u>	<u>One or more of the &lt;property/&gt; child elements is restricted</u>
<u>Prescription Level</u>	<u>permitted</u>
<u>Tags</u>	<u>"connection"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<u>BJC-TA-20012</u>
<u>Source</u>	<u>[BJC20012]</u>
<u>Target</u>	<u>&lt;binding.jca/&gt; element with &lt;inboundConnection managed="false"/&gt; child element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>The &lt;inboundConnection/&gt; element does not have a &lt;resourceAdapter/&gt; child element</u>
<u>Prescription Level</u>	<u>mandatory</u>
<u>Tags</u>	<u>"unmanaged"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<u>BJC-TA-20013</u>
<u>Source</u>	<u>[BJC20013]</u>
<u>Target</u>	<u>&lt;activationSpec/&gt; child element of a &lt;inboundConnection/&gt; element</u>
<u>Prerequisites</u>	<u>The @create attribute has a value of "always"</u>
<u>Predicate</u>	<u>The value of the @name attribute is unique in the SCA Domain</u>
<u>Prescription Level</u>	<u>mandatory</u>
<u>Tags</u>	<u>"connection"</u>
<u>Comment</u>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20014</a>
<u>Source</u>	<a href="#">[BJC20014]</a>
<u>Target</u>	<a href="#">&lt;activationSpec/&gt; child element of a &lt;inboundConnection/&gt; element</a>
<u>Prerequisites</u>	The @create attribute has a value of "always"
<u>Predicate</u>	The value of the @name attribute names an activation spec that does not exist in the JEE node
<u>Prescription Level</u>	optional
<u>Tags</u>	"connection"
<b>Comment</b>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20015</a>
<u>Source</u>	<a href="#">[BJC20015]</a>
<u>Target</u>	<a href="#">&lt;reference&gt; with a child &lt;binding.jca/&gt; element</a>
<u>Prerequisites</u>	
<u>Predicate</u>	The <inboundInteraction/> element is not present
<u>Prescription Level</u>	mandatory
<u>Tags</u>	"interaction"
<b>Comment</b>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20016</a>
<u>Source</u>	<a href="#">[BJC20016]</a>
<u>Target</u>	<a href="#">&lt;binding.jca/&gt; element with &lt;inboundInteraction/&gt; child element</a>
<u>Prerequisites</u>	The <listener/> child element of the <inboundInteraction/> element is not present
<u>Predicate</u>	The SCA Runtime uses a listener interface of javax.cci.MessageListener
<u>Prescription Level</u>	mandatory
<u>Tags</u>	"listener"
<b>Comment</b>	

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<u>Assertion ID</u>	<a href="#">BJC-TA-20017</a>
<u>Source</u>	<a href="#">[BJC20017]</a>
<u>Target</u>	<a href="#">&lt;binding.jca/&gt; element</a>
<u>Prerequisites</u>	

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<u>Predicate</u>	<u>The &lt;binding.jca/&gt; element conforms to the sca-binding-jca.xsd schema</u>
<u>Prescription Level</u>	<u>mandatory</u>
<u>Tags</u>	<u>"schema"</u>
<u>Comment</u>	

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## A. Cross Mapping of Conformance Statements to Test Assertions

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This section contains a list of conformance items for the SCA JCA Binding specification and the corresponding Test Assertions.

Conformance ID	Test Assertion
<del>BJC20001</del>	<del>BJC-TA-20001</del>
<del>BJC20002</del>	<del>BJC-TA-20002</del>
<del>BJC20003</del>	<del>BJC-TA-20003</del>
<del>BJC20004</del>	<del>BJC-TA-20004</del>
<del>BJC20005</del>	<del>BJC-TA-20005</del>
<del>BJC20006</del>	<del>BJC-TA-20006</del>
<del>BJC20007</del>	<del>BJC-TA-20007</del>
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## B. Acknowledgements

84 The following individuals have participated in the creation of this specification and are gratefully  
85 acknowledged:

86 **Participants:**

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## C. Revision History

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[optional; should not be included in OASIS Standards]

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Revision	Date	Editor	Changes Made
wd01	2009-07-24	Simon Holdsworth	Initial draft
wd02	2009-09-09	Dave Booz	Added first pass at assertions

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**Page 8: [1] Inserted** **Dave Booz** **9/9/2009 8:57 AM**

Prescription Level	permittedoptional
Tags	“connectionresource adapter”

**Page 9: [2] Inserted** **Dave Booz** **9/9/2009 9:19 AM**

Prescription Level	preferredoptional
Tags	“connection”
<b>Comment</b>	

Assertion ID	BJC-TA-20009
Source	[BJC20009]
Target	<service> with a child <binding.jca/> element
Prerequisites	
Predicate	The <outboundInteraction/> element is not present
Prescription Level	mandatory
Tags	“connectioninteraction”

**Page 10: [3] Inserted** **Dave Booz** **9/9/2009 9:28 AM**

Prescription Level	permittedoptional
Tags	“connection”
<b>Comment</b>	

Assertion ID	BJC-TA-20012
Source	[BJC20012]
Target	<binding.jca/> element with <inboundConnection managed=”false”/> child element
Prerequisites	
Predicate	The <inboundConnection/> element does not have a <resourceAdapter/> child element
Prescription Level	mandatory
Tags	“connectionunmanaged”